

Title (en)

NON-DESTRUCTIVE TESTING METHOD OF THE DEGREE OF CURING OR DRYING OF DYES AND PAINTS

Title (de)

ZERSTÖRUNGSFREIES PRÜFVERFAHREN DES AUSHÄRTUNGS- ODER TROCKNUNGSGRADES VON FARBEN UND LACKEN

Title (fr)

PROCÉDÉ NON DESTRUCTIF PERMETTANT DE VÉRIFIER LE DEGRÉ DE DURCISSEMENT OU LE DEGRÉ DE SÉCHAGE DE PEINTURES ET DE LAQUES

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Abstract (en)

[origin: WO2010026037A1] The invention describes a method for determining the degree of curing or drying of one or more printed inks and/or paint layers on a substrate. For example, a paper, cardboard, plastic film or composite print substrate can be printed in a sheet or web-processing printing machine in a mass-printing method. Possible methods include intaglio, flexographic, screen or offset printing methods. To ensure good drying, the degree of curing or drying of the printed product during passage through the printing machine or at a print sensor outside the printing machine is determined using a surface plasmon resonance (SPR) sensor. To this end, the received measurement signal from the SPR sensor is fed to an evaluation unit and characteristic parameters are determined from the received signal in order to permit a determination to be made about the degree of curing or drying of the printed product on an absolute basis or relative to one or more reference values.

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